

Supplementary Table 1: Characteristics of the populations analysed.

Populations	Population code	Population number	Sample Size (N)	Location	Latitude (Deg N)	Longitude (Deg E)	Historical Subsistence Method	Language	Data source	DNA type
Aheu	AHE	61	37	Laos	17.21	105.49	Hunters-gatherers	Austro-Asiatic	Cai et al., 2011	Modern DNA
Alik	ALI	5	29	Laos	115.6	106.21	Agriculturalism	Austro-Asiatic	Cai et al., 2011	Modern DNA
Amikalar	AMB	11	29	[South] India	13.1	83	Agriculturalism	Austro-Asiatic	Sengupta et al., 2006	Modern DNA
Anatolia Centre	ACT	8	90	Turkey	39.3	34.7	Agriculturalism	Altaiic	Cinnioglu et al., 2005	Modern DNA
Anatolia East	AES	9	82	Turkey	39.2	40.7	Agriculturalism	Altaiic	Cinnioglu et al., 2005	Modern DNA
Anatolia Istanbul	AIS	10	79	Turkey	41	29.1	Agriculturalism	Altaiic	Cinnioglu et al., 2005	Modern DNA
Anatolia North	ANR	13	29	Turkey	41.5	33.7	Agriculturalism	Altaiic	Cinnioglu et al., 2005	Modern DNA
Anatolia North East	ANE	12	83	Turkey	40.8	38.6	Agriculturalism	Altaiic	Cinnioglu et al., 2005	Modern DNA
Anatolia North West	ANW	14	53	Turkey	40.0	35.1	Agriculturalism	Altaiic	Cinnioglu et al., 2005	Modern DNA
Anatolia South	AST	16	33	Turkey	36.7	34.5	Agriculturalism	Altaiic	Cinnioglu et al., 2005	Modern DNA
Anatolia South East	ASE	15	43	Turkey	37.5	39.1	Agriculturalism	Altaiic	Cinnioglu et al., 2005	Modern DNA
Anatolia South West	ASW	17	30	Turkey	38.3	28.6	Agriculturalism	Altaiic	Cinnioglu et al., 2005	Modern DNA
Azeri	AZE	18	19	Azerbaijan	40.38	49.84	Agriculturalism	Altaiic	Zerjal et al., 2002	Modern DNA
Balochi (Baloch)	BLC	74	25	[South] Pakistan	30.5	65.5	Multiple ¹	Indo-European	Sengupta et al., 2006	Modern DNA
Beijing-Han	BHJ	84	51	China	39.9	116.4	na	Sino-Tibetan	Kim et al., 2011	Modern DNA
Bei	BIT	3	23	Laos	20.53	101.72	Agriculturalism	Austro-Asiatic	Cai et al., 2011	Modern DNA
Bo	BO	85	26	Laos	18.24	104.59	na	Austro-Asiatic	Cai et al., 2011	Modern DNA
Brahui	BRH	91	25	[South] Pakistan	30.5	66.5	Dravidian	Sengupta et al., 2006	Modern DNA	
Brahui	BRH	91	25	Pakistan	30.5	66.5	Agriculturalism	Austro-Asiatic	Cai et al., 2011	Modern DNA
Burusho	BRO	92	20	[North] Pakistan	36.5	74	Burusho isolate	Sengupta et al., 2006	Modern DNA	
Buryat	BRY	102	36	Mongolia	47.45	96.52	Pastoral nomadism	Altaiic	Kim et al., 2011	Modern DNA
Buyi (Buyei)	BUY	19	35	China	26	105.7	Agriculturalism	Sino-Tibetan	Xue et al., 2006	Modern DNA
Chamor	CHA	20	17	(North) India	27.2	80.8	Agriculturalism	Indo-European	Sengupta et al., 2006	Modern DNA
Daur	DAU	104	39	China	49.3	124.6	Pastoral nomadism	Altaiic	Xue et al., 2006	Modern DNA
Dungan	DUN	21	22	Kyrgyzstan ²	40.51	72.78	Agriculturalism	Sino-Tibetan	Zerjal et al., 2002	Modern DNA
Eweki (Eweki)	EWK	105	26	China	48	116	Pastoral nomadism	Altaiic	Xue et al., 2006	Modern DNA
Georgians	GEO	22	26	Georgia	42.65	44.63	Agriculturalism	South-Caucasian	Zerjal et al., 2002	Modern DNA
Haibei	HAL	62	20	[Central] India	22	81.3	Multiple ¹	Indo-European	Sengupta et al., 2006	Modern DNA
Han	HAN	93	24	China	32.5	114	na	Sino-Tibetan	Sengupta et al., 2006	Modern DNA
Han (Hanjiu)	HCD	63	33	China	30.6	104.1	Multiple ¹	Sino-Tibetan	Xue et al., 2006	Modern DNA
Han (Harden)	HHR	23	35	China	45.7	126.5	Agriculturalism	Sino-Tibetan	Xue et al., 2006	Modern DNA
Han (Lanzhou)	HZL	64	30	China	36	107.7	Multiple ¹	Sino-Tibetan	Xue et al., 2006	Modern DNA
Han (Mexican)	HMX	65	35	China	24.3	116.1	Multiple ¹	Sino-Tibetan	Xue et al., 2006	Modern DNA
Han (Yili)	HYL	66	32	China	43.5	87.3	Multiple ¹	Sino-Tibetan	Xue et al., 2006	Modern DNA
Hani	HNI	24	34	China	23.5	101.9	Agriculturalism	Sino-Tibetan	Xue et al., 2006	Modern DNA
Hanoï	HAO	101	48	Vietnam	21.11	105.86	na	Austro-Asiatic	Kim et al., 2011	Modern DNA
Hazara	HZA	94	25	[North] Pakistan	33.5	70	na	Indo-European	Sengupta et al., 2006	Modern DNA
Helle	HEZ	106	44	Iran	47.5	132.5	Pastoral nomadism	Altaiic	Xue et al., 2006	Modern DNA
Hmong Daw	HMD	80	48	Laos	20.12	102.31	Multiple ¹	Sino-Tibetan	Cai et al., 2011	Modern DNA
Ho	HO	25	30	[East] India	22.8	85.8	Agriculturalism	Austro-Asiatic	Sengupta et al., 2006	Modern DNA
Hui	HUI	95	35	China	36.6	105.5	na	Sino-Tibetan	Xue et al., 2006	Modern DNA
Inh	INH	86	33	Laos	15.76	106.9	na	Austro-Asiatic	Cai et al., 2011	Modern DNA
Inner Mongolian	IMG	107	45	China	35	126	Pastoral nomadism	Altaiic	Xue et al., 2006	Modern DNA
Iran	IRN	90	87	Iran	35.71	51.42	Indo-European	El-Siba'i et al., 2009	Modern DNA	
Iruia	ILA	67	30	[South] India	10.9	76.8	Multiple ¹	Dravidian	Sengupta et al., 2006	Modern DNA
Iyengar	IYN	26	29	[South] India	13.1	80.3	Agriculturalism	Dravidian	Sengupta et al., 2006	Modern DNA
Iyer	IYR	27	29	[South] India	13.1	80.3	Agriculturalism	Dravidian	Sengupta et al., 2006	Modern DNA
Jamaica	JAM	28	30	[Northeast] India	23.9	91.4	Agriculturalism	Sino-Tibetan	Sengupta et al., 2006	Modern DNA
Japhet	JAV	37	37	India	40.86	107.02	Multiple ¹	Indo-European	Cai et al., 2011	Modern DNA
Jeh	JEH	76	31	Laos	16.14	107.47	Altaiic	Zerjal et al., 2011	Modern DNA	
Jordan	JOR	89	253	Jordan	31.16	36.28	na	Afro-Asiatic	Sengupta et al., 2006	Modern DNA
Kalash	KLS	96	20	[North] Pakistan	36	71.5	Indo-European	Dravidian	Sengupta et al., 2006	Modern DNA
Kamar	KMR	32	30	[Central] India	21.2	81.5	Agriculturalism	Dravidian	Sengupta et al., 2006	Modern DNA
Karakalpaks (On To ⁺ Urum from Karakalpaka)	OTU	119	54	Western Uzbekistan	42.93	59.77	Pastoral nomadism	Altaiic	This study	Modern DNA
Karakalpaks (Dongxi from Karakalpaka)	KK	109	54	Western Uzbekistan	40.76	59.62	Pastoral nomadism	Altaiic	This study	Modern DNA
Kataang	KGD	6	37	Laos	15.41	102.72	Agriculturalism	Altaiic	This study	Modern DNA
Katu	KUF	78	43	Laos	15.06	107.62	Multiple ¹	Austro-Asiatic	Cai et al., 2011	Modern DNA
Kazaks (Karakalpaka)	KAZ	114	50	Western Uzbekistan	43.04	58.83	Pastoral nomadism	Altaiic	This study	Modern DNA
Kazaks ¹	KZK	108	38	Kazakhstan	49.16	85.59	Multiple ¹	Austro-Asiatic	Zerjal et al., 2002	Modern DNA
Khalikh	KHL	103	45	Mongolia	47.5	105.67	Pastoral nomadism	Altaiic	Kim et al., 2011	Modern DNA
Kharia	KHO	77	46	Laos	15.6	100.06	Multiple ¹	Austro-Asiatic	Sengupta et al., 2006	Modern DNA
Koknath, Brahmin	KBR	29	25	[West] India	18.9	72.8	Agriculturalism	Indo-European	Sengupta et al., 2006	Modern DNA
Konda, Reddy	KRY	69	29	[South] India	16.1	79.5	Multiple ¹	Dravidian	Sengupta et al., 2006	Modern DNA
Korean	KOR	83	506	Korea	36.35	127.76	Agriculturalism	Altaiic	Xue et al., 2006	Modern DNA
Korean (Chin)	KCH	30	43	Korea	37.5	127	Agriculturalism	Altaiic	Xue et al., 2006	Modern DNA
Kot	KOU	33	15	[South] India	10.9	76.8	Agriculturalism	Dravidian	Sengupta et al., 2006	Modern DNA
Koya, Dora	KOR	68	27	[South] India	16.1	75.5	Multiple ¹	Dravidian	Sengupta et al., 2006	Modern DNA
Krasnoyarsk, Kurgan	KYK	1	6	Russia	56.02	93.07	na	Indo-European	Keyser et al., 2009	Ancient DNA
Kurds	KRD	34	20	Turkmenistan	37.95	58.21	Agriculturalism	Dravidian	Zerjal et al., 2009	Modern DNA
Kurumba (Kuruba)	KRB	70	17	[South] India	10.9	76.8	Multiple ¹	Dravidian	Sengupta et al., 2006	Modern DNA
Kyrgez (Kyrgyz)	KYR	113	41	Kyrgyzstan	41.2	74.77	Pastoral nomadism	Altaiic	Zerjal et al., 2002	Modern DNA
Kyrgez (Kurjan)	KRA	110	46	Tajikistan/Kyrgyzstan border	40.76	71.21	Pastoral nomadism	Altaiic	This study	Modern DNA
Kyrgez (Narin)	KRG	111	20	Midde Kyrgyzstan	41.1	74.33	Pastoral nomadism	Altaiic	This study	Modern DNA
Kyrgez (Narin)	KRM	112	22	Midde Kyrgyzstan	41.45	76.22	Pastoral nomadism	Altaiic	This study	Modern DNA
Lamet	LBN	79	33	Laos	20.29	100.36	Multiple ¹	Austro-Asiatic	Cai et al., 2011	Modern DNA
Laven	LBD	7	48	Laos	14.9	105.46	Agriculturalism	Austro-Asiatic	Cai et al., 2011	Modern DNA
Li	LID	35	34	China	18.5	109.3	Agriculturalism	Sino-Tibetan	Xue et al., 2006	Modern DNA
Lodha	LDO	36	20	[East] India	22.0	97.6	Agriculturalism	Austro-Asiatic	Sengupta et al., 2006	Modern DNA
Makrani	MKR	97	20	[South] Pakistan	26	64	na	Indo-European	Sengupta et al., 2006	Modern DNA
Mal	MLF	42	42	Laos	18.6	101.26	Agriculturalism	Austro-Asiatic	Cai et al., 2011	Modern DNA
Manchurian	MAC	115	35	China	40.2	123.2	Pastoral nomadism	Altaiic	Xue et al., 2006	Modern DNA
Manicha	MAN	71	30	China	44.91	124.25	Multiple ¹	Austro-Asiatic	Kim et al., 2011	Modern DNA
Maratha	MRT	37	20	[West] India	18.9	72.8	Agriculturalism	Indo-European	Sengupta et al., 2006	Modern DNA
Miao	MZO	40	27	[South] India	23.9	92.7	Agriculturalism	Sino-Tibetan	Sengupta et al., 2006	Modern DNA
Mongolians	MON	116	65	Mongolia	47.94	102.91	Pastoral nomadism	Altaiic	Zerjal et al., 2002	Modern DNA
Muria (Muriya)	MUR	38	18	[Central] India	22	81.3	Agriculturalism	Dravidian	Sengupta et al., 2006	Modern DNA
Muslim	MUS	39	19	(North) India	27	81	Agriculturalism	Indo-European	Sengupta et al., 2006	Modern DNA
Ngee (Nkring)	NGT	81	34	Laos	16.54	106.43	Multiple ¹	Austro-Asiatic	Cai et al., 2011	Modern DNA
Orogen	ORQ	118	31	China	50.3	123.4	Pastoral nomadism	Altaiic	Xue et al., 2006	Modern DNA
Oss	OSS	41	15	Georgia	42.4	43.8	Agriculturalism	Indo-European	Zerjal et al., 2002	Modern DNA
Ozbek, Mongolian	OMG	117	65	Mongolia	48.2	107	Pastoral nomadism	Altaiic	Xue et al., 2006	Modern DNA
Ozbekiks (Karakalpaka)	UZ2	124	39	Western Uzbekistan	43.04	58.83	Pastoral nomadism	Altaiic	This study	Modern DNA
Oy	OYB	82	50	Laos	14.33	106.84	Multiple ¹	Austro-Asiatic	Cai et al., 2011	Modern DNA
Pallan (Pallar, Mallar)	PLN	42	27	[South] India	12.8	80	Agriculturalism	Dravidian	Sengupta et al., 2006	Modern DNA
Pathan	PAH	98	21	[North] Pakistan	33.5	71.5	na	Indo-European	Sengupta et al., 2006	Modern DNA
Pathan	PGC	43	33	China	31.4	103.5	Agriculturalism	Sino-Tibetan	Xue et al., 2006	Modern DNA
Raiput (Rajput)	RAJ	99	29	[North] India	27.2	80.8	Multiple ¹	Indo-European	Sengupta et al., 2006	Modern DNA
She	SHE	44	34	China	25.1	117.4	Agriculturalism	Sino-Tibetan	Xue et al., 2006	Modern DNA
Sindhi	SDH	100	21	[South] Pakistan	25.5	69	na	Indo-European	Sengupta et al., 2006	Modern DNA
So	SO	73	43	Laos	17.41	105.35	Multiple ¹	Austro-Asiatic	Cai et al., 2011	Modern DNA
Suy	SUY	72	35	Laos	16.06	105.11	Multiple ¹	Austro-Asiatic	Xue et al., 2006	Modern DNA
Svans	SVA	45	25	Georgia	42.9	42.9	Agriculturalism	Sino-Tibetan	Cai et al., 2011	Modern DNA
Syria	SYR	88	335	Syria	34.98	53.83	na	Sinocentral	El-Siba'i et al., 2009	Modern DNA
Tajiks (Fergana)	TJK	48	35	Tajikistan/Kyrgyzstan border	40.25	71.86	Agriculturalism	Indo-European	Zerjal et al., 2002	Modern DNA
Tajiks (Fergana)	TJR	49	29	Tajikistan/Kyrgyzstan border	40.35	71.27	Agriculturalism	Indo-European	This study	Modern DNA
Tajiks (Samarkand)	TJA	47	31	Uzbekistan/Tajikistan border	39.53	68.89	Agriculturalism	Indo-European	This study	Modern DNA
Tajiks (Samarkand)	TJU	50	29	Uzbekistan/Tajikistan border	39.8	67.26	Agriculturalism	Indo-European	This study	Modern DNA
Tai	TAI	57	34	Thailand	13.58	100.57	Multiple ¹	Austro-Asiatic	Cai et al., 2011	Modern DNA
Tai	THA	75	40	Thailand	13.58	100.57	Pastoral nomadism	Sino-Tibetan	Xue et al., 2006	Modern DNA
Tibet	TIB	120	35	China	29.6	91.1	Agriculturalism	Sino-Tibetan		